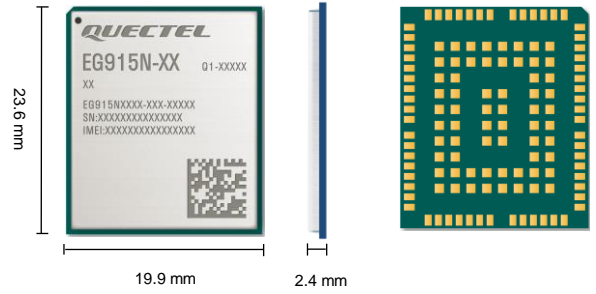


# Quectel EG915N Series

## IoT/ M2M-optimized LTE Cat 1 Module



Quectel EG915N is a series of LTE Cat 1 modules optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-9 LTE technology, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG915N series are compatible with Quectel GSM/ GPRS M95 module, LTE Cat M1/ Cat NB2/ EGPRS BG95 series modules, LTE Cat M1/ Cat NB1/ EGPRS BG96 module, LTE Cat 1 EG91 series modules and LTE Cat 4 EG95 series modules, which allows flexible switch among different networks.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/ 8/ 8.1/ 10/ 11, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications such as industrial router, industrial PDA, tablet PC, video transmission, and digital signage.



### Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Worldwide LTE/ GSM/ GPRS/ EDGE coverage
- ✓ Support DFOTA
- ✓ Super cost-effective
- ✓ LTE multi-mode module in compact size
- ✓ Support Wi-Fi Scan



LTE Cat 1  
Max. 10 Mbps (DL)  
Max. 5 Mbps (UL)



Compact Size



LGA Package



Embedded Abundant  
Protocols



DFOTA



Dual SIM



USB 2.0 High Speed  
Interface



VoLTE



Quectel Enhanced  
AT Commands



Multi-constellation  
GNSS

Version: 1.5 | Status: Released

# Quectel EG915N Series

LTE Cat 1	EG915N-EU	EG915N-LA	EG915N-EA
<b>Region/ Operator</b>	Europe	Latin America	Europe/ Asia
<b>Dimensions (mm)</b>	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
<b>Weight (g)</b>	Approx. 2.46	Approx. 2.46 g	Approx. 2.46
<b>Package</b>	LGA Package	LGA Package	LGA Package
<b>Temperature Range</b>			
<b>Operating Temperature</b>	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
<b>Extended Temperature</b>	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
<b>Frequency Bands</b>			
<b>LTE-FDD</b>	B1/ 3/ 7/ 8/ 20	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 7/ 8/ 20/ 28
<b>GSM</b>	B3/ 8	B2/ 3/ 5/ 8	B3/ 8
<b>GNSS (Optional)</b>	GPS/ GLONASS/ Galileo/ BDS/ QZSS	GPS/ GLONASS/ Galileo/ BDS/ QZSS	GPS/ GLONASS/ Galileo/ BDS/ QZSS
<b>Certifications</b>			
<b>Regulatory</b>	<b>Europe:</b> CE <b>The UK:</b> UKCA <b>Australia/ New Zealand:</b> RCM	<b>America:</b> FCC <b>Brazil:</b> Anatel	<b>Europe:</b> CE <b>Australia/ New Zealand:</b> RCM
<b>Others</b>	WHQL	WHQL	WHQL
<b>Data Transmission</b>			
<b>LTE-FDD Data Rate (Mbps)</b>	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
<b>GPRS Data Rate (kbps)</b>	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
<b>EDGE Data Rate (kbps)</b>	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)
<b>Interfaces</b>			
<b>USB 2.0</b>	× 1	× 1	× 1
<b>Digital Audio (PCM)</b>	× 1	× 1	× 1
<b>(U)SIM</b>	× 2 (Dual SIM Single Standby)	× 2 (Dual SIM Single Standby)	× 2 (Dual SIM Single Standby)
<b>NET_STATUS</b>	× 1	× 1	× 1
<b>UART</b>	× 3 (main, debug and auxiliary*)	× 3 (main, debug and auxiliary*)	× 3 (main, debug and auxiliary*)
<b>ADC</b>	× 2	-	-
<b>RESET_N</b>	× 1	× 1	× 1
<b>PWRKEY</b>	× 1	× 1	× 1
<b>I2C</b>	× 1	× 1	× 1
<b>USB_BOOT</b>	× 1	× 1	× 1
<b>Analog Audio Input (× 1) Analog Audio Output (× 1)</b>	× 1 (Microphone and Earpiece)	× 1 (Microphone and Earpiece)	× 1 (Microphone and Earpiece)
<b>Antenna</b>	× 2 (Main and GNSS Antennas (Optional))	× 2 (Main and GNSS Antennas (Optional))	× 2 (Main and GNSS Antennas (Optional))
<b>Voice</b>			
<b>Speech Codec Modes</b>	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
<b>Echo Arithmetic</b>	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression
<b>Audio</b>	Analog Audio/ Digital Audio	Analog Audio/ Digital Audio	Analog Audio/ Digital Audio
<b>Software Features</b>			
<b>Protocols</b>	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS
<b>USB Serial Driver</b>	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5 Android 4.x–13.x	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5 Android 4.x–13.x	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5 Android 4.x–13.x
<b>RIL Driver</b>	Android 4.x–13.x	Android 4.x–13.x	Android 4.x–13.x
<b>USB RNDIS Driver</b>	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5
<b>USB ECM Driver</b>	Linux 2.6–6.5	Linux 2.6–6.5	Linux 2.6–6.5
<b>GNSS Driver</b>	Android 4.x–13.x	Android 4.x–13.x	Android 4.x–13.x

NOTE:

\*: Under development

# Quectel EG915N Series

LTE Cat 1	EG915N-EU	EG915N-LA	EG915N-EA
<b>Enhanced Features</b>			
DTMF	●	●	●
DFOTA	●	●	●
Audio Playback/ Audio Recording	●	●	●
Wi-Fi Scan	●	●	●
VoLTE	●	●	●
(U)SIM Card Detection	●	●	●
<b>Electrical Features</b>			
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V	3.4–4.5 V, typ. 3.8 V	3.4–4.5 V, typ. 3.8 V
<b>Power Consumption (Typical)</b>	20 $\mu$ A @ Power off Mode	24 $\mu$ A @ Power off Mode	24.49 $\mu$ A @ Power off Mode
	1.16 mA @ LTE Sleep Mode (PF = 128, USB disconnected)	1.35 mA @ LTE Sleep Mode (PF = 128, USB disconnected)	1.22 mA @ LTE Sleep Mode (PF = 128, USB disconnected)
	1.09 mA @ LTE Sleep Mode (PF = 256, USB disconnected)	1.25 mA @ LTE Sleep Mode (PF = 256, USB disconnected)	1.10 mA @ LTE Sleep Mode (PF = 256, USB disconnected)
	19.36 mA @ LTE Idle Mode (PF=64, USB disconnected)	15.81 mA @ LTE Idle Mode (PF=64, USB disconnected)	16.52 mA @ LTE Idle Mode (PF=64, USB disconnected)
	28.49 mA @ LTE Idle Mode (PF=64, USB connected)	28.10 mA @ LTE Idle Mode (PF=64, USB connected)	29.39 mA @ LTE Idle Mode (PF=64, USB connected)

NOTE:

●: Supported